

## **Statistical study of impact of labour time factors on labour productivity**

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### **Abstract**

The paper considers labour time factors that influence labour productivity. It turns out that loss of working hours within a shift influences mostly labour productivity indicators. The statement of the problem stems from the fact that at the modern scale and the complexity of production time, the saving of working time gained prominence. The loss of only one minutes of working time on a national scale is equivalent to the loss of daily work results of two hundred thousand workers. The paper suggests a methodology for calculating loss of working time within a shift. Its use in petrochemical plants of Tatarstan Republic is discussed. Besides, the use of working hours is analyzed by ratio delay method. The need for correction of data timecard of actually hours worked, appears in the absence of confidence in the reliability of the data on in-shift loss of working time.

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### **Keywords**

Factor analysis of labor productivity, In-shift loss, Method of moment observations, Productivity, Working time